

SEQUENCE LISTING

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Yamada, Yoshiki

<120> METHODS FOR PRODUCING ANTIBODIES

<130> 14875-137US1

<150> PCT/JP03/07071

<151> 2003-06-04

<150> JP 2002-164834

<151> 2002-06-05

<150> JP 2002-180351

<151> 2002-06-20

<160> 4

<170> PatentIn Ver. 2.1

<210> 1

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:an artificially
synthesized primer sequence

<400> 1

gaattccacc atggtaagcg ctattgtt

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<210> 2

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:an artificially
synthesized primer sequence

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gaattcttaa tattgtctat tacggt

26

<210> 3

<211> 1539

<212> DNA

<213> Baculovirus

<220>

<221> CDS

<222> (1) .. (1539)

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tct gcc ttt gcg gcg gag cac tgc aac gcg caa atg aag acg ggt ccg	96
Ser Ala Phe Ala Ala Glu His Cys Asn Ala Gln Met Lys Thr Gly Pro	
20 25 30	
tac aag att aaa aac ttg gac att acc ccg ccc aag gaa acg ctg caa	144
Tyr Lys Ile Lys Asn Leu Asp Ile Thr Pro Pro Lys Glu Thr Leu Gln	
35 40 45	
aag gac gtg gaa atc acc atc gtg gag acg gac tac aac gaa aac gtg	192
Lys Asp Val Glu Ile Thr Ile Val Glu Thr Asp Tyr Asn Glu Asn Val	
50 55 60	
att atc ggc tac aag ggg tac tac cag gcg tat gcg tac aac ggc ggc	240
Ile Ile Gly Tyr Lys Gly Tyr Tyr Gln Ala Tyr Ala Tyr Asn Gly Gly	
65 70 75 80	
tcg ctg gat ccc aac aca cgc gtc gaa gaa acc atg aaa acg ctg aat	288
Ser Leu Asp Pro Asn Thr Arg Val Glu Glu Thr Met Lys Thr Leu Asn	
85 90 95	
gtg ggc aaa gag gat ttg ctt atg tgg agc atc agg cag cag tgc gag	336
Val Gly Lys Glu Asp Leu Leu Met Trp Ser Ile Arg Gln Gln Cys Glu	
100 105 110	
gtg ggc gaa gag ctg atc gac cgt tgg ggc agt gac agc gac gac tgt	384
Val Gly Glu Glu Leu Ile Asp Arg Trp Gly Ser Asp Ser Asp Asp Cys	
115 120 125	
ttt cgc gac aac gag ggc cgc ggc cag tgg gtc aaa ggc aaa gag ttg	432
Phe Arg Asp Asn Glu Gly Arg Gly Gln Trp Val Lys Gly Lys Glu Leu	
130 135 140	
gtg aag cgg cag aat aac aat cac ttt gcg cac cac acg tgc aac aaa	480
Val Lys Arg Gln Asn Asn Asn His Phe Ala His His Thr Cys Asn Lys	
145 150 155 160	
tcg tgg cga tgc ggc att tcc act tcg aaa atg tac agc agg ctc gag	528
Ser Trp Arg Cys Gly Ile Ser Thr Ser Lys Met Tyr Ser Arg Leu Glu	
165 170 175	
tgc cag gac gac acg gac gag tgc cag gta tac att ttg gac gct gag	576
Cys Gln Asp Asp Thr Asp Glu Cys Gln Val Tyr Ile Leu Asp Ala Glu	
180 185 190	
ggc aac ccc atc aac gtg acc gtg gac act gtg ctt cat cga gac ggc	624
Gly Asn Pro Ile Asn Val Thr Val Asp Thr Val Leu His Arg Asp Gly	
195 200 205	
gtg agt atg att ctc aaa caa aag tct acg ttc acc acg cgc caa ata	672
Val Ser Met Ile Leu Lys Gln Lys Ser Thr Phe Thr Thr Arg Gln Ile	

210	215	220	
aaa gct gcg tgt ctg ctc att aaa gat gac aaa aat aac ccc gag tcg			720
Lys Ala Ala Cys Leu Leu Ile Lys Asp Asp Lys Asn Asn Pro Glu Ser			
225	230	235 240	
gtg aca cgc gaa cac tgt ttg att gac aat gat ata tat gat ctt tct			768
Val Thr Arg Glu His Cys Leu Ile Asp Asn Asp Ile Tyr Asp Leu Ser			
	245	250 255	
aaa aac acg tgg aac tgc aag ttt aac aga tgc att aaa cgc aaa gtc			816
Lys Asn Thr Trp Asn Cys Lys Phe Asn Arg Cys Ile Lys Arg Lys Val			
	260	265 270	
gag cac cga gtc aag aag cgg ccg ccc act tgg cgc cac aac gtt aga			864
Glu His Arg Val Lys Lys Arg Pro Pro Thr Trp Arg His Asn Val Arg			
	275	280 285	
gcc aag tac aca gag gga gac act gcc acc aaa ggc gac ctg atg cat			912
Ala Lys Tyr Thr Glu Gly Asp Thr Ala Thr Lys Gly Asp Leu Met His			
	290	295 300	
att caa gag gag ctg atg tac gaa aac gat ttg ctg aaa atg aac att			960
Ile Gln Glu Glu Leu Met Tyr Glu Asn Asp Leu Leu Lys Met Asn Ile			
305	310	315 320	
gag ctg atg cat gcg cac atc aac aag cta aac aat atg ctg cac gac			1008
Glu Leu Met His Ala His Ile Asn Lys Leu Asn Asn Met Leu His Asp			
	325	330 335	
ctg ata gtc tcc gtg gcc aag gtg gac gag cgt ttg att ggc aat ctc			1056
Leu Ile Val Ser Val Ala Lys Val Asp Glu Arg Leu Ile Gly Asn Leu			
	340	345 350	
atg aac aac tct gtt tct tca aca ttt ttg tcg gac gac acg ttt ttg			1104
Met Asn Asn Ser Val Ser Ser Thr Phe Leu Ser Asp Asp Thr Phe Leu			
	355	360 365	
ctg atg ccg tgc acc aat ccg ccg gca cac acc agt aat tgc tac aac			1152
Leu Met Pro Cys Thr Asn Pro Pro Ala His Thr Ser Asn Cys Tyr Asn			
	370	375 380	
aac agc atc tac aaa gaa ggg cgt tgg gtg gcc aac acg gac tcg tcg			1200
Asn Ser Ile Tyr Lys Glu Gly Arg Trp Val Ala Asn Thr Asp Ser Ser			
385	390	395 400	
caa tgc ata gat ttt agc aac tac aag gaa cta gca att gac gac gac			1248
Gln Cys Ile Asp Phe Ser Asn Tyr Lys Glu Leu Ala Ile Asp Asp Asp			
	405	410 415	
gtc gag ttt tgg atc ccg acc atc ggc aac acg acc tat cac gac agt			1296
Val Glu Phe Trp Ile Pro Thr Ile Gly Asn Thr Thr Tyr His Asp Ser			
	420	425 430	
tgg aaa gat gcc agc ggc tgg tcg ttt att gcc caa caa aaa agc aac			1344
Trp Lys Asp Ala Ser Gly Trp Ser Phe Ile Ala Gln Gln Lys Ser Asn			
	435	440 445	

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ctc ata acc acc atg gag aac acc aag ttt ggc ggc gtc ggc acc agt 1392
Leu Ile Thr Thr Met Glu Asn Thr Lys Phe Gly Gly Val Gly Thr Ser
    450                455                460

ctg agc gac atc act tcc atg gct gaa ggc gaa ttg gcc gct aaa ttg 1440
Leu Ser Asp Ile Thr Ser Met Ala Glu Gly Glu Leu Ala Ala Lys Leu
465                470                475                480

act tcg ttc atg ttt ggt cat gta gtt aac ttt gta att ata tta att 1488
Thr Ser Phe Met Phe Gly His Val Val Asn Phe Val Ile Ile Leu Ile
                485                490                495

gtg att tta ttt ttg tac tgt atg att aga aac cgt aat aga caa tat 1536
Val Ile Leu Phe Leu Tyr Cys Met Ile Arg Asn Arg Asn Arg Gln Tyr
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taa 1539

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<210> 4
<211> 512
<212> PRT
<213> Baculovirus

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Tyr Lys Ile Lys Asn Leu Asp Ile Thr Pro Pro Lys Glu Thr Leu Gln
    35          40          45
Lys Asp Val Glu Ile Thr Ile Val Glu Thr Asp Tyr Asn Glu Asn Val
    50          55          60
Ile Ile Gly Tyr Lys Gly Tyr Tyr Gln Ala Tyr Ala Tyr Asn Gly Gly
    65          70          75          80
Ser Leu Asp Pro Asn Thr Arg Val Glu Glu Thr Met Lys Thr Leu Asn
    85          90          95
Val Gly Lys Glu Asp Leu Leu Met Trp Ser Ile Arg Gln Gln Cys Glu
    100         105         110
Val Gly Glu Glu Leu Ile Asp Arg Trp Gly Ser Asp Ser Asp Asp Cys
    115         120         125
Phe Arg Asp Asn Glu Gly Arg Gly Gln Trp Val Lys Gly Lys Glu Leu
    130         135         140
Val Lys Arg Gln Asn Asn Asn His Phe Ala His His Thr Cys Asn Lys
    145         150         155         160
Ser Trp Arg Cys Gly Ile Ser Thr Ser Lys Met Tyr Ser Arg Leu Glu
    165         170         175
Cys Gln Asp Asp Thr Asp Glu Cys Gln Val Tyr Ile Leu Asp Ala Glu
    180         185         190
Gly Asn Pro Ile Asn Val Thr Val Asp Thr Val Leu His Arg Asp Gly
    195         200         205
Val Ser Met Ile Leu Lys Gln Lys Ser Thr Phe Thr Thr Arg Gln Ile
    210         215         220
Lys Ala Ala Cys Leu Leu Ile Lys Asp Asp Lys Asn Asn Pro Glu Ser
    225         230         235         240

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Val	Thr	Arg	Glu	His	Cys	Leu	Ile	Asp	Asn	Asp	Ile	Tyr	Asp	Leu	Ser	
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Lys	Asn	Thr	Trp	Asn	Cys	Lys	Phe	Asn	Arg	Cys	Ile	Lys	Arg	Lys	Val	
			260					265					270			
Glu	His	Arg	Val	Lys	Lys	Arg	Pro	Pro	Thr	Trp	Arg	His	Asn	Val	Arg	
		275					280					285				
Ala	Lys	Tyr	Thr	Glu	Gly	Asp	Thr	Ala	Thr	Lys	Gly	Asp	Leu	Met	His	
	290					295					300					
Ile	Gln	Glu	Glu	Leu	Met	Tyr	Glu	Asn	Asp	Leu	Leu	Lys	Met	Asn	Ile	
305					310					315					320	
Glu	Leu	Met	His	Ala	His	Ile	Asn	Lys	Leu	Asn	Asn	Met	Leu	His	Asp	
			325						330					335		
Leu	Ile	Val	Ser	Val	Ala	Lys	Val	Asp	Glu	Arg	Leu	Ile	Gly	Asn	Leu	
		340						345					350			
Met	Asn	Asn	Ser	Val	Ser	Ser	Thr	Phe	Leu	Ser	Asp	Asp	Thr	Phe	Leu	
		355					360					365				
Leu	Met	Pro	Cys	Thr	Asn	Pro	Pro	Ala	His	Thr	Ser	Asn	Cys	Tyr	Asn	
	370					375					380					
Asn	Ser	Ile	Tyr	Lys	Glu	Gly	Arg	Trp	Val	Ala	Asn	Thr	Asp	Ser	Ser	
385					390					395					400	
Gln	Cys	Ile	Asp	Phe	Ser	Asn	Tyr	Lys	Glu	Leu	Ala	Ile	Asp	Asp	Asp	
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Val	Glu	Phe	Trp	Ile	Pro	Thr	Ile	Gly	Asn	Thr	Thr	Tyr	His	Asp	Ser	
		420						425					430			
Trp	Lys	Asp	Ala	Ser	Gly	Trp	Ser	Phe	Ile	Ala	Gln	Gln	Lys	Ser	Asn	
		435					440					445				
Leu	Ile	Thr	Thr	Met	Glu	Asn	Thr	Lys	Phe	Gly	Gly	Val	Gly	Thr	Ser	
	450					455					460					
Leu	Ser	Asp	Ile	Thr	Ser	Met	Ala	Glu	Gly	Glu	Leu	Ala	Ala	Lys	Leu	
465					470					475					480	
Thr	Ser	Phe	Met	Phe	Gly	His	Val	Val	Asn	Phe	Val	Ile	Ile	Leu	Ile	
			485						490					495		
Val	Ile	Leu	Phe	Leu	Tyr	Cys	Met	Ile	Arg	Asn	Arg	Asn	Arg	Gln	Tyr	
		500						505					510			